



BROOKHAVEN BULLETIN

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April 22, 1971

Former BNL Scientist Wins Lawrence Award

Dr. Robert L. Hellens, Brookhaven staff member from 1951 to 1968 in the Department of Applied Science, was named to be one of the five winners of the E.O. Lawrence Award for 1971. Each of the five winners will receive a gold medal, a citation and \$5000.

Dr. Hellens was cited for "... numerous pioneering contributions to the field of light water reactor physics, for work in reactor statics, and the Fourier transform approach to the solution of the Boltzman transport equation which formed the basis of design work on many large light water moderated power reactors and naval reactors and for comprehensive and classic analyses of light water exponential and critical experiments which have contributed greatly to the understanding and improvement of design procedures for light water power reactors."

This is the twelfth year young scientists have been named to receive the award, which was established by the AEC in December 1959 to perpetuate the memory of the late Dr. Ernest O. Lawrence, inventor of the cyclotron and Director of the AEC's Radiation Laboratory at Berkeley and Livermore.

Dr. Robert L. Hellens was born in Fall River, Massachusetts, on August 4, 1925. He received a B.S. degree in 1946 and an M.S. degree in 1948, both in physics from Brown University. He subsequently studied theoretical physics at Yale and received his Ph.D. degree there in 1951.

Dr. Hellens joined the staff of the Bettis Atomic Power Laboratory and became Manager of the Basic Theory Section in 1953. In 1957 Dr. Hellens moved to Combustion Engineering to work under the Naval Reactor Program and undertake initial studies on commercial power reactors. He joined Brookhaven National Laboratory in 1961 as group leader in reactor analysis. This position provided an excellent opportunity to incorporate recent improvements in the theory of reactor lattices into a unified structure, to examine the various lattice measurements for sources of systematic error and to make a broad appraisal of the state of the art. Since much European work in reactor theory had developed along different lines, Dr. Hellens was posted to the Winfrith Laboratory of the United Kingdom Atomic Energy Authority in 1964-65 as a visiting scientist to study these alternative methods.

The growing interest in power generating reactors led to Dr. Hellens' return to Combustion Engineering in 1968 where he has been concerned with the control of xenon instabilities, the systematic utilization of in-core instrumentation, plutonium recycle, and the analysis of the physics aspects of operating reactors. He currently holds the title of Chief Physicist in the Nuclear Power Department.

Dr. Hellens is a member of the American Physical Society and a Fellow of the American Nuclear Society.

One of last year's winners was Dr. Joseph M. Hendrie, also DAS, who was cited "For his outstanding contributions to the physics and engineering of versatile research reactors and for important contributions and recognized leadership in promoting the safety of large power reactors."

AUI Scholarship Winners Named



Elizabeth Rahm



Margit Dahl



Don Katcoff



Beth Friedman



Leslie Seifert



Jean Welch



Paul Bateman



Sharon Woodson



Rena Bornstein

The ten winners of the 1971 AUI Trustee Scholarships have been announced.

From Bellport Sr. High School, **Margit Dahl**, daughter of Lewis K. Dahl (Medical); **Elizabeth Rahm**, daughter of David C. Rahm (Physics); from Central Islip H.S., **Jean Welch**, daughter of Frank P. Welch (Photo & Graphic Arts); from Earl L. Vandermeulen H.S., **Paul Bateman**, son of John L. Bateman (Medical); **Rena Bornstein**, daughter of William Bornstein (Physics); **Leslie Seifert**, son of Abe Seifert (PEP); from Patchogue Sr. H.S., **Beth Friedman**, daughter of Lewis Friedman (Chemistry); **Don Katcoff**, son of Seymour Katcoff (Chemistry); from Riverhead H.S., **Sharon Woodson**, daughter of Armstead Woodson (PEP); and from Smithtown Central H.S., **Haldan Cohn**, son of Stanton H. Cohn (Medical).

As with all college-bound high school seniors, the winners are in the throes of selecting a college after the long wait for acceptances and trying to understand the capricious behavior of college admissions offices.

The scholarships are awarded on a competitive basis and selections were made on the basis of academic excellence, potential and general aptitude for college work. The awards are in the amount of \$900 per year for up to four years.

AUI Trustee scholarships were initiated in 1965 and winners in that year and in 1966 have now graduated. This June will see the third class of graduates whose college careers have been greatly assisted by these awards.

The program is administered for AUI by the Educational Testing Service, Princeton, N. J.



Haldan Cohn

Further Evidence For Super-Protein

Late in 1970, a team of researchers headed by Dr. Joseph Yourno, Biology Department geneticist, reported on the first laboratory produced "super-protein," which provides an answer to the evolutionary puzzle of how biologically important multifunctional proteins, or enzymes, have been produced in nature. The process, termed "gene fusion," created one super-protein which is bi-functional, instead of two normal, uni-functional proteins.

At the time it was thought the gene fusion created a joining neck, which in effect formed a "two-headed" protein. If this were true, the researchers reasoned that it should be possible to reverse the fusion by cleaving at the neck and recovering the two uni-functional proteins.

In the April 10 issue of *The Journal of Biological Chemistry*, Dr. Yourno and research associate Tadahiko Kohno report strong evidence that the fused gene does indeed produce a "two-headed" protein. Using a biochemical "microsurgery" technique, the scientists separated the fused proteins and recovered one of them virtually intact and still possessing its original function. The successful outcome of this experiment provides further evidence that one form of evolutionary mutation in nature is the fusion of different genes to produce complex multi-functional proteins.

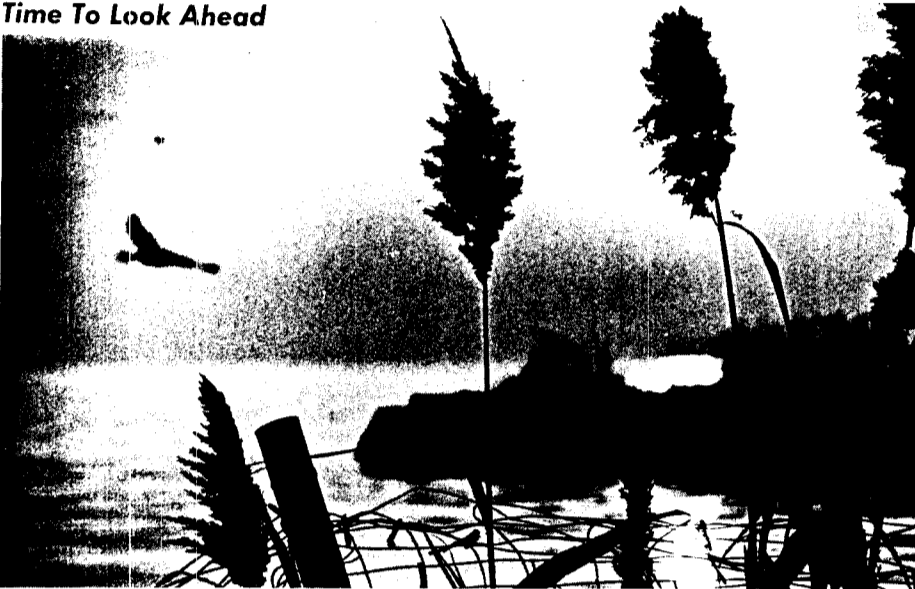
The original fused, or two headed, protein was produced in the bacterium *Salmonella typhimurium* as the result of two successive gene mutations in the DNA which were passed on to the proteins via the messenger RNA chain while the cell was undergoing mitosis. The first mutation occurred at the end of the histidine D gene, where the signal to stop producing the histidine D protein was eliminated. The second mutation occurred at the start of the histidine C gene which is the next gene in the DNA chain. Here the signal to start producing the histidine C protein was eliminated. Thus, without stopping production of the histidine D protein, the RNA messenger automatically added into the process the production of histidine C protein. The composition and size of the resultant super-protein equalled exactly the sum of the two individual proteins that would have been produced from two normal genes, and contained both functions as well.

Joseph Yourno, head of this research effort is a 34 year old geneticist who joined the Biology Department in 1965. His research associate is 26 year old Tadahiko Kohno, who joined the staff in 1969 and plans to enter graduate school this year in pursuit of his Ph.D.

IBEW Meets Tonight

Local 2230 IBEW will hold its regular monthly meeting on April 22 at 8 p.m. in the K of C Hall, Railroad Avenue, Patchogue. There will also be an afternoon meeting in the union offices at 31 Oak Street at 2 p.m. for shift workers. On the agenda will be regular business, committee reports, and the President's report.

Time To Look Ahead



The tranquil mood of spring and approaching summer was captured by Photographer Mort Rosen in this view of the Great South Bay. Daylight Saving time, the annual harbinger of summer, will officially begin at 2 a.m. this Sunday, April 25. At that time, set all clocks ahead one hour. Daylight Saving time will end in the Fall on the last Sunday in October, when the clocks are set back again for Eastern Standard time.

Safety Check On Microwave Ovens

Among the latest additions to the implements used in the culinary arts is the microwave oven. Along with its ability to heat food rapidly, it can possibly do the same for the users' anatomy. The safety feature which is found on all of these ovens consists of an interlock that shuts off the power when the oven door is opened. If the oven was not designed properly or has not

been maintained, it is possible that microwave energy can leak around the edges of the closed door while the oven is on. The Safety Services Office, Ext. 591, can arrange to have a survey made on a microwave oven being used at BNL to determine if leakage is within safe limits. Microwave ovens being used for other than food preparation also qualify for this service.

Weekly Calendar

Tuesday, April 27	
Medical Department Seminar	3:00 p.m., Seminar Rm., 30 Bell Ave.
The Renal Glomerulus Harold Burlington, Ph.D., Mt. Sinai School of Medicine; Medical Department, BNL	
Wednesday, April 28	
Theory Seminar	2:00 p.m., Sm. Seminar Rm., 20 Penn. St.
A Model for Pomeron Couplings M.B. Green, Institute for Advanced Study	
Chemistry Seminar	3:30 p.m., Chem. Seminar Rm., 33 Lewis Rd.
Elementary Processes in Radiation Chemistry and Photochemistry in Rigid Organic Matrices John E. Willard, University of Wisconsin	
Thursday, April 29	
Solid State Seminar	1:30 p.m., Sm. Seminar Rm., 20 Penn. St.
Some Properties of Chromium and its Alloys M.J. Zuckermann, McGill University	
Friday, April 30	
Biology Seminar	11:00 a.m., Biology Library, 50 Bell Ave.
Recent Studies with Papain G. Lowe, Dyson Parrine Laboratory, Oxford, England	
Tuesday, May 4	
Biology Seminar	11:00 a.m., Biology Library, 50 Bell Ave.
Neurochemistry: Studies on the Metabolic Determinant of D-Galactose-Induced Neurotoxicity in the Chick W.W. Wells, Michigan State University	
Medical Department Seminar	3:00 p.m., Seminar Room, 30 Bell Ave.
Chemical Consequences of Tritium Substitution at the Tracer Level Ralph E. Weston, Chemistry Department, Brookhaven National Laboratory	
Wednesday, May 5	
Accelerator Department Seminar	11:00 a.m., Snyder Seminar Rm., 35 Lawrence Dr.
Workshop on Particle Physics at Intermediate Energies at California Institute of Technology Dr. D. Berley, Accelerator Department, Brookhaven National Laboratory	
Theory Seminar	11:00 a.m., Sm. Seminar Rm., 20 Penn. St.
Photon Splitting in a Strong Magnetic Field S.M. Adler, University of Massachusetts	
Thursday, May 6	
Particle Physics Seminar	11:00 a.m., Sm. Seminar Rm., 20 Penn. St.
Searches for Intermediate Vector Boson R.K. Adair, Yale University	

Here and There

Claire Lamberti

George M. Woodwell (Biology) has accepted the invitation from H.L. Dennison, Suffolk County Executive, to serve on the Environmental Protection Council.

Gertrude S. Goldhaber (Physics) was invited to give seminars at UCLA and UCSD (La Jolla) and colloquia at the Naval Research Laboratory, Washington, D.C. and Brown University during March and April; the topic of her talks was the Variable Moment of Inertia Model of the atomic nucleus.

Henry R. Hirsch joined the Biology Department as Guest Associate Biophysicist on March 1. Dr. Hirsch is on a six-month sabbatical leave from the University of Kentucky and will work in association with Howard J. Curtis.

Attention All Golfers !

The young, the old, the duffers and the pro's. The BERA Golf Association welcomes you for another season of fun. This years program will include - team competition, outings and buffet suppers. Applications available at Recreation Office in the Gym. League entry deadline April 23.

Large Bore Rifle Meet

The Brookhaven National Laboratory Rifle and Pistol Club will have a large bore rifle shoot within the next few weeks at Brookhaven Town's Medford Range.

Non-club members may also participate. Prizes will be given for first and second place.

Anyone interested call Frank Rumph, Ext. 7581, or watch the *Brookhaven Bulletin* for scheduled dates.

Arrivals & Departures

Arrivals	
- None -	
Departures	
Gustav F. Drews	Mech. Engrg.
Joseph Grasso	Accelerator
Paul R. Kallmeyer	Accelerator
James F. White	Accelerator

BNL Research On TV

Stanton Cohn (Ph.D.), medical physicist in the Medical Department, will discuss osteoporosis on TV this Sunday. The subject, called *Bones Without Calcium*, is part of a regular weekly series on NBC-TV known as *Research Project*.

The program is hosted by Dr. Frank Field, science editor of NBC-TV, but perhaps more widely known for his weather forecasts on the six and eleven o'clock news. He also regularly does a science report on the six o'clock news, and is planning on using portions of the osteoporosis show for that in the near future.

A highlight of the program will be a movie shot here on site by our own photographers and starring many BNL'ers who assist in the osteoporosis research effort. Tune in and watch for your friends.

The program, *Research Project*, will be shown on NBC-TV, Channel 4, this Sunday, April 25 at 12:00 noon.

Over the years, a number of BNL scientists have appeared on this program, including Drs. E. Cronkite, L. Dahl, G. Cotzias and L. Hamilton.

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Published Weekly for the Employees of Brookhaven National Laboratory

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NORBERT J. DERNBACH
Public Relations Officer

Letters To The Editor

Dear Sir:

Why must we lump together all of our annoyance as was done in J. Kelsch's letter to the Editor of April 15, 1971? He seriously jeopardizes what one likes to think is his main concern, trash strewn about the site, by making a phoney correlation between littering and hair length.

One's first reaction is to respond to this letter with slogans like "Since my hair is shorter my virtue is longer" or "My hair is on my shoulder and my butt is on the ground." Also, one is tempted to ask why the correlation between facial hair and virtue wasn't explored, you know, the "How can you stand that dirty hair on your face" bit. However, levity in this situation may not be appropriate.

Let's face it, slobos come in all sexes, colors, sizes, shapes, religions, national backgrounds, and hair lengths. To prejudge anyone on the basis of any of these factors is unworthy of the man.

So let's not foul our own nest either with trash strewn about the site or with trash strewn around our minds. Robert D. Baldwin, Jr.

Selected Reading

Technol. Rev. 73, April 1971
Science at a policy crossroads. D.K. Price. 30-7
The case for national environmental laboratories. D.J. Rose. 38-47
Fortune 83, March 1971
The senseless war on science. L. Lessing. 88-91 +
Phys. Today 24, April 1971
Women in physics. G.B. Lubkin. 23-7
Rehovot 6, No. 1, 1970-1971
High energy physics: Where is it heading? M. Schwartz. 10-12
Science 172, April 9, 1971
A time to take stock. J.R. Pierce. 115

Semester Student



Ernestine Willis, (right) a mathematics major who is in her Junior year at Tougaloo College, is spending this semester at Brookhaven. Miss Willis is working on a research project on Bernoulli numbers and the sum of power of integers, with her advisor, Sidney Heller of the Applied Mathematics Department.

Spring Cleanup

Some of the equipment on the BNL site has served its original purpose, and in many cases has been shelved awaiting a possible future need. The Supply & Material Division feels that a concerted effort should be made to screen equipment; that which is obsolete or surplus should be transferred to the Central Pools for possible re-utilization, or disposal action. This will help to reduce the overall capital equipment inventory and relieve individual Departmental accountability.

Many departments retain several pieces of electronic and mechanical equipment for emergency spares. It is strongly urged that, if possible, a portion of this "back up" equipment be turned in to the Central Pools where an adequate supply of general purpose items will be maintained.

The week of May 17 has been designated as *Housecleaning Week*. S&M Division will have a driver and truck available to pick up all equipment turn-ins. Please call Ext. 2826 or Ext. 2704 to arrange for equipment pick-up. S&M requests the cooperation of all employees in this spring cleanup effort.

Hospitality News

The next Hospitality Committee coffee meeting will be held on Monday, April 26, from 10 a.m. until noon in apartment 8-A. Mrs. Sammis has agreed to give a demonstration on how to make burlap flowers. Everyone is welcome - bring the children.

Don't forget to circle May 5 on your calendar - that's the date for the next Tea and Sherry Party at the Brookhaven Center. Three to five p.m. is the time, and babysitting will be provided free of charge at the gymnasium.

The theme, "BNL's Talented Handicrafters," will be developed by displays of handicrafts and needlework created by employees and their family members.

Please contact Terri Pittenger, 286-9471, or Liv Knudsen, 286-8175, if you wish to display some of your work.

Cafeteria Menu

Week Ending April 29, 1971

Friday, April 23	
Manhattan Clam Chowder	
Fish 'n' Chips w/ Tartar Sauce	.80
Grilled Chopped Beefsteak w/Onions & 1 Veg.	.80
Shrimp Creole on Rice w/1 Veg.	.85
Monday, April 26	
Cream of Tomato Soup	
Round Roast of Beef w/Gravy & 1 Veg.	.85
Veal Pattie Parmigiana w/1 Veg.	.85
Franks w/Baked Beans	.75
Tuesday, April 27	
Turkey & Rice Soup	
Salisbury Steak w/Gravy & 1 Veg.	.80
Chicken Patties w/Chicken Cream Sauce & 1 Veg.	.80
Pork Chop Suey on Rice	.80
Wednesday, April 28	
Beef Vegetable Soup	
Macaroni & Cheese w/ Bacon	.70
1/4 Roast Chicken w/Stuffing, Cranberry Sauce & 1 Veg.	.80
Poached Filet of Sole w/Shrimp Sauce & 1 Veg.	.95
Thursday, April 29	
Minestrone Soup	
Pot Roast of Beef w/Gravy & Mashed Potatoes	.85
Cider Basted Ham Steak w/Pineapple Ring & 1 Veg.	.85
Beef Hash w/ Chili Sauce & 1 Veg.	.80

Recent Retirees



William E. Gray, Radioactive Materials Treatment Operator B, who had been employed at BNL since March 4, 1957, retired from the Lab on March 19.



Timothy F. Malloy, Senior Designer, Mechanical Engineering Division, who had been working at Brookhaven since April 18, 1949, retired on April 9.

Softball Leagues Forming

We have organized our softball program to encourage maximum participation as well as spirited competition. We play "Slow-Pitch Softball," a game which lets every batter hit the ball and which gives the fielders plenty of exercise.

We try to balance the competition in several ways. The team rosters must meet certain departmental criteria, the teams are divided into leagues of equal ability, and the season is split in half which means slow-starting teams get a clean record in the second half and another chance to win the championship.

The season begins in early May with each team playing once a week and climaxes with the playoffs in late August. Amateur Softball Association Umpires are hired to officiate at the games. BERA supplies the necessary equipment, such as balls and bases, and presents the victors with awards. The League assesses each team a few dollars per man for incidental expenses and special programs.

Team applications for Men's and Mixed Leagues may now be picked up at the Recreation Office. If your group is not planning a team, you may enter your name in the Players' Pool and we will see that you play.

Stony Brook Events

An "International Weekend," theater productions, concerts, films, and lectures are among the events open to the public at the State University of New York at Stony Brook between Friday, April 23 and Thursday, April 29. Unless indicated, the events listed are open to the public without charge.

Friday, April 23

Samuel Beckett's "Waiting for Godot" will be performed by the Theater Department at 8 p.m. in the new University Theater, Building B on the South Campus, admission \$1.00. This film will be repeated on Saturday and Sunday, same time and place.

The University Chorus will perform a concert directed by Gregg Smith at 8:30 p.m. in the Stony Brook Union Theater.

Saturday, April 24

"International Weekend" begins with a series of documentary films on foreign countries running from 11 a.m. to 3 p.m. in the Stony Brook Union Theater. At 2 p.m. exhibition dances - featuring African, Chinese, Lithuanian, Filipino and Estonian dances - will be performed in the Union Courtyard at 6 p.m. Frederico Fellini's "La Dolce Vita" will be shown in the Union Theater. At 8:30 p.m. a "Cultural Show" will begin featuring dancers from many countries, native folk singing and an international fashion show, (for "Cultural Show" only) donation 50¢. Bazaars, international cafes, displays and an art exhibit will also be open in the Union most of the day. This entire program will be repeated on Sunday, same times and place.

At 3 p.m. the Port Jefferson Slavic Center and the International Students Association will present a puppet show and magic exhibition for children in the Stony Brook Union Theater.

Sunday, April 25

Toby Lurie, a poet musician, will perform at 1 p.m. in the Plaza of the Earth and Space Sciences Building.

Rock Singer Jethro Tull and the J. Geils Blues Band will perform two concerts sponsored by the Student Activities Board at 8 p.m. and 11 p.m. in the Gym, admission \$4.50. Tickets should be purchased before the concerts in the Union Ticket Office.

Michael Williamson, a Stony Brook graduate student, will give a trombone recital featuring works by Saint-Saens, Ives, Robert Sanders, Wagenseil, McKay and Dahl at 8:30 p.m. in Room 105 of the Lecture Center.

As part of the Dreiser College Film Series, "Who Was That Lady?" will be shown at 9 p.m. in the Dreiser Lounge.

Tuesday, April 27

Sandra Carlock, a Stony Brook graduate student, will give a piano recital featuring works by Bach, Bovicchi and Chopin at 8:30 p.m. in Room 105 of the Lecture Center.

Wednesday, April 28

Robert Harvey, a Stony Brook graduate student, will give a clarinet recital featuring works by Debussy, Wellesz, Hindemith and Brahms at 8:30 p.m. in Room 105 of the Lecture Center.

Thursday, April 29

"The Madman and the Nun," a short play by Stanislaw Witkiewicz will be performed by the Theater Department at 8 p.m. in the new University Theater, Building B on the South Campus, admission \$1.00.

"To Die in Madrid," Frederic Rossif's film about the Spanish Civil War, will be shown at 8 p.m. in Room 100 of the Lecture Center.

Cooking Exchange

The next meeting of the Cooking Exchange will be held on Thursday, April 29, from 3 to 5 p.m. in the apartment area recreation building. The featured demonstration will be Cold Main Dishes.

A fee of \$.75 will be collected from each adult to defray the expenses of the demonstration and the babysitting.

Keep in mind the following future demonstrations:

- May 13 - Meats and Fruit
- May 27 - Barbeque and Ice Cream

Bowling News

Grace Fales

Red League

The Bubble Boys have closed the gap to within 2 points of the Old Timers. Position night next week will tell us who the second half winners are. One point separates the Alphas and Bio Rads as they fight for third. G. Waldbauer was high for the night with his 236/681 gross series. Other 200's were R. Adams 224, G. Spira 217, and J. Ferrante 201.

Pink League

As we go into Position night it's still anybody's guess with the Hopefuls only one point behind the first place Pinsplitters. Highs for the night were "Mike" Mayhew 196, Ellie Murgatroyd 171, Grace Fales 169, Audrey Bangel 162, and Pat Oster 160.

Black and Blue League

Omegas are leading the AR's by 2 points as we head into the final week of the season. The rest of us are eliminated from winning. Dick Murgatroyd had a 202/503, and Ben Belligan rolled a 502 series. Dot Pollock rolled a 434 series to lead the girls and Carol Baker had a 405 series.

—o—

Sweepstakes Reminder - Port Jeff bowlers will have their Sweeps on Tuesday, April 27th - games will start at 5:30 P.M. Black and Blue League will have their Sweeps on Monday, April 26th starting at 6:30 P.M., buffet afterward.

Classified Advertisements

Positions Available

The Brookhaven Bulletin each week will list job openings which have come to our attention and may be of interest to Lab employees. Each listing will be repeated (if still available) only once.

MECHANICAL ENGINEERS - With background in isotope shielding analysis and job estimation. Radiation International, Parsippany, New Jersey.

COOK - With some experience. Woodhaven Adult Home, Port Jefferson Station, New York.

SURVEY BOAT OPERATOR - New York District, Department of the Army, New York, New York.

TYPIST/CLERK - Department of the Army, New York, New York.

CLERK/STENOGRAPHER - Department of the Army, New York, New York.

CIVIL ENGINEERING TECHNICIAN - Department of the Army, New York, New York.

CIVIL ENGINEER - Secaucus Area, Department of the Army, New York, New York.

TYPISTS (2) - Experience on selectric or executive. Brookhaven Memorial Hospital, Patchogue, New York.

DIETICIAN - Licensed; some experience. Bayview Community Hospital, Mastic Beach, New York.

INDUSTRIAL ENGINEER - B.S. in industrial engineering; 2-3 years' experience in manufacturing, including cost reduction, work simplification and methods. General Instrument Corporation, Hicksville, New York.

ACCOUNTING CLERK - Clerical typist with training in bookkeeping. General Telephone & Electronics Laboratories, Bayside, New York.

CHEMIST - Ph.D. in physical chemistry, chemical engineering or electrochemistry. General Telephone & Electronics Laboratories, Bayside, New York.

MEDICAL TRANSCRIBER - To work from a dictaphone machine. Bayview Community Hospital, Mastic Beach, New York.

CHIEF OF BUILDINGS ENGINEER - Maintenance, etc. Veteran's Administration Hospital, Northport, New York.

ENGINEER - Electrical systems, pipe fitting, etc. Veteran's Administration Hospital, Northport, New York.

SENIOR SYSTEMS AND PROGRAMMING MANAGER - To head up all application systems and programming; converting from IBM system to new RCA-3 equipment. Hofstra University, Hempstead, New York.

RESEARCH SERVICES ASSISTANT - Patient Care, Medical Department, BNL.

RESEARCH SERVICES ASSISTANT - Veterinary Group, Medical Department, BNL.

SUPERINTENDENT OF BUILDINGS AND GROUNDS - Central High School District No. 3, Merrick, New York.

ELECTRO-OPTICAL TECHNICIAN - Background in lasers and electronics. General Telephone & Electronics Laboratories, Bayside, New York.

ADDRESSOGRAPH OPERATOR - Full or part-time. Anthony Addressing Service, Patchogue, New York.

FOUNDRY FOREMAN, MOLDERS AND GRINDERS - Aluminum and magnesium sand casting foundry. Rosedale Foundry Corporation, Hicksville, New York.

PROGRAMMERS - To work on PDP-8 computers; industrial systems applications in areas of gas and petroleum, pipe lining, water treatment and water and air pollution. Should have 1-2 years' experience in real-time language. Data-Master Corporation, Glen Cove, New York.

SALESMEN (10 NEEDED) - Part or full-time for Cutco Division of Alcoa. All areas of Long Island. Absolutely no canvassing involved. Apply care of BNL Personnel Office.

PLANT SYSTEMS OPERATOR - Temporary position for six months. Job includes de-bugging of electrical and mechanical equipment. Vermont Yankee Nuclear Power Corporation, Rutland, Vermont. Call Robert Powell, extension 663, for further information.

STORE MANAGERS - Some basic bookkeeping helpful; ability to handle people. Mallory Restaurants, Suffolk and Nassau Counties.

ELECTRICAL ENGINEER - To work in facilities engineering department, power distribution, high voltage, etc. Minimum eight years' experience. Gruman Aerospace Corp., Bethpage, New York.

SALESMEN - Full training program. Mutual of New York, Westbury, New York.

DIGITAL ENGINEER - E.E. degree and three years' experience. Grumman Aerospace Corporation, Bethpage, New York.

SIMULATION ENGINEER - E.E. degree and two years' experience. Grumman Aerospace Corporation, Bethpage, New York.

CIRCUIT DESIGN ENGINEER - E.E. degree and two years' experience. Grumman Aerospace Corporation, Bethpage, New York.

MAINTENANCE MAN - Henry Perkins Hotel, Riverhead, New York.

SALESMAN - Prudential Insurance Company, Smithtown, New York.

SALESMEN AND SALES MANAGERS - Connecticut General Life Insurance Company, Melville, New York.

METALLURGIST - B.A. or M.A. in metallurgy or material science. General Telephone & Electronics Laboratories, Bayside, New York.

TECHNICAL TYPIST - Knowledge of scientific terminology. General Telephone & Electronics Laboratories, Bayside, New York.

REGISTERED NURSES - Rotating shifts. Medical Department, BNL.

For further information, please contact Employment Supervisor Ext. 2109 or 2513.

Autos & Auto Supplies

67 MUSTANG FASTBACK - Delux, auto, ps/pb, air cond, new batt, glass tires. \$1700. 744-8765 after 6.

69 PLYMOUTH ROAD RUNNER - Auto, radio, ps/4 new fiberglass belted tires, very low mileage, showroom cond. Glenn, 732-4658.

66 OMEGA KAWASAKI - 125 cc, good running cond. \$150. C. Kelley, Ext. 7625, LT9-7504.

63 FORD FAIRLANE - 6 cyl, auto trans, 4 dr sedan, new auto '69, new muff '71, '72 tags, runs, could use \$50 work. Quick sale, \$150. Arnold, 924-3905.

69 VOLVO 142 - Blue, std trans, snows, 2 extra wheels. J. McKoy, 732-5271.

68 CAMARO SS396 - 325 hp, 4 spd Hurst, posi, tach, full gauges, pb, 27,000 mi, excel cond. \$1800. Ext. 382.

64 CORVETTE - 2 tops, \$1800; set of 7.75x15 Pirelli, \$40. B.R. Gwathney, 589-8533.

70 MUSTANG FASTBACK - Grabber blue/blk int, auto trans, radio, console, 302 cu in. eng, racing stripes, slight body wk. Ann, 286-9750.

63 COUNTRY SQUIRE - V8, auto trans, ps/pb, 9 psgr, good cond. \$350 or best offer. W. Lundgren, Ext. 7525, 588-1566.

TOYOTA REPAIR & TUNE-UP GUIDE - Publ by Chilton, compl specifications, troubleshooting, tune-up & repairs. Neal, Ext. 7488.

68 BUICK VISTA CRUISER SPORTS WAGON - 10 psgr, ps/pb, air cond, good tires, excel cond. \$2600. Gileta, Ext. 7654, 653-4618 eves.

VW BUG - '65 eng in '62 car, excel cond, r/h, good tires/brakes, white. \$550. Ext. 322, 744-3959 after 5:30.

68 VW - Auto, needs fender & hood, front end needs fixing. Bargain at \$875. 727-0488.

68 FORD LTD STATION WAGON - 302 cu in, auto trans, ps/pb, 10 psgr, excel cond. \$1950. Ext. 7617.

67 CHEVELLE SS396 - 325 hp, auto trans, red/blk vinyl top, ps, bckts, console, very clean. 281-7588.

60 TRIUMPH TR3 CONV - \$200. C. Pukit, Ext. 2950.

70 MG MIDGET - Good cond, am/fm radio, reasonable. Pat, 212-HY9-8251 eves.

REESE AXLE HITCH - W/equalizer bars. Rich, Ext. 635.

67 VW - Sunroof sedan, radio, 2 new tires, brakes, well taken care of, dented rear fenders. \$600. Tom, Ext. 7519, 653-6615 after 7.

70 PLYMOUTH DUSTER - Blue, low mileage, perf cond, 3 spd on floor, small V8, reg gas, going into service, pick up payments. Zinna, Ext. 2556, 589-4243.

Boats & Marine Supplies

15' RUNABOUT - Little Dude tilt trailer, 25 hp Evinrude, all extras, ready for water, must sell. Charlie, Ext. 2340.

13' RUNABOUT - 40 hp Johnson, very good cond, new equipment. Asking \$425. Freddy, Ext. 565.

PORTA POTTIE (MARINE SS) - New, \$109, sells for \$129, also have access & chemicals. Jack, Ext. 684.

PACIFIC CATAMARAN - 18'9x11'7, w/trailer. Roeser, Ext. 2248, 286-0976.

16' GLASPAR RUNABOUT 1967 - 40 hp elec start Johnson, compl navy top, life jackets, elec horn, Lil Dude tilt trailer, excel cond. \$1000. 289-1848 after 7.

16' MFG RUNABOUT - Life preservers, anchor & new weather cover, excel cond. \$300. Ext. 590.

16' FIBERGLASS - 35 hp Evinrude & trailer, fully equipped. Asking \$700. Ext. 2556, 281- 6322.

12' PELICAN CLASS SAILBOAT - Under construction, hull planked & deck framed, w/plans. As is, \$45. Wes, Ext. 2340.

15' PENN YAN LAPSTRAKE - 35 hp Evinrude o/b, trailer, acces. \$650. 475-2966.

20' FIBERGLASS CRUISING SLOOP - Signet 20, sleeps 4, fully equipped, 4 bags of sail, many extras, priced to sell. Ext. 2993, 744-9436.

14' LUGER - \$50. Jerry, 281-5289 after 4.

Miscellaneous

PORTABLE PHONO - Hi-fi, could be used as amp, made by Grundig, 3 spd auto changer. \$25. Irene, 589-6468 after 4:45.

ELEC ORGAN - W/40 base buttons, good, Orcoa, w/bench & music. \$75. Irene, 589-6468 after 4:45.

NEW CHROME STOVE HOOD - 24"x15½", \$3.50; new "Nu Gard" auto door bottom, \$2; bathrm sink faucet (central brass), \$7; chrome faucet, \$1.25; porch light, \$3.50. 281-8390.

LAWN MOWER - Toro reel type, 21", used only twice last season. Cost \$159, asking \$75. Falkenbach, Ext. 664.

PIANO CHAIR - Circa 1908, caned, spindle legged, \$2; old din rm chair, padded, \$1; desk chair, castered, spring tilting, maple, w/cushion, \$4. Van, Ext. 2924.

FLANGING SET - \$2; wood scribe, \$1; fire extinguisher, \$5; bench for pipe cutting stand, \$3; pipe threader stand w/4 dies, \$5; ½ hp motor for pump, \$7.50. 281-8390.

26" BICYCLE - 3 spd Sturmey, Archer gears, in good cond. \$15. Al, Ext. 2347, 273-5574 after 5.

WINDOW FAN - Lg 20" pulley type, in very good cond. \$18. Al, Ext. 2347, 273-5574 after 5.

3 ELEC MOTORS - 1-oil burner gun compl. Take all for \$20. MO7-9218 after 6.

APACHE CAMPER - Very good cond. Asking \$350. 281-3655.

8' CAMPER FOR PICKUP - "Home Built", sleeps 4, sink, ice box, gas stove. \$475. 289-4776, Ext. 586.

STEREO TAPE PLAYER - Solid state, 8 track, batt or built-in AC adaptor, 2 detachable speakers, auto channel selector, tone & balance control, like new. \$50. Ext. 7386.

CHILD'S MASONITE DESK - W/chair, has light & shelf, good cond, \$5; doll bed w/"Little Lost Baby", \$2. C. Merritt, LT9-5126.

ACCORDION - 120 bass, 7 shifts, lg Italian made, w/case, music stand, good cond. \$40. Irene, 589-6468 after 4:45.

BABY CARRIAGE - Biltrite, removable hard body, excel cond, best offer; baby car bed, good cond, best offer. Irwin, Ext. 2168.

BICYCLE - Girl's Schwinn, full size, fair cond. \$20. Ext. 7386.

ALUM FOLDING TABLE - Opens to 24"x60", ideal for camping, perf cond. \$6. R. Monaghan, Ext. 2852.

MICROSCOPE - Professional Kyowa model KHS-2, monocular, new cond, 3 eyepieces, 4 objectives, graduated coaxial mech stage, Koalite lamp, wood case, extras. Worth \$500, asking \$200. Saxon, Ext. 2366.

TELESCOPE - 6" Dynascopé RV6; 18, 7, 6 & 4 mm eyepieces, clock drive, 1 yr old. \$150 firm. F. Martin, 475-6826 after 7.

CANNING PRESSURE COOKER - \$5; 2 burner portable elec stove, \$8; 2 sinks (for workshop), \$3 ea. 727-1617.

ZENITH 23" TV CONSOLETTA - B&w, very good cond. 878-1982, 5-6.

SMALL CRIB & MATTRESS - 20"x36", \$3; car crib, \$4; wood playpen & pad, \$6; crib, \$5; bathinette, \$3. 727-1617.

20 VOL ENCYCLOPEDIA - Std. Internatl. '56 ed, \$20; 18 vol Our Wonderful World Bk of Knowledge, \$20; Irene, 589-6468 after 4:45.

PUPPIES - Irish Setter dad, German Shepherd mother, beauties, must go to good homes & be loved, ready May 1. Heiner, Ext. 2162, 732-5520.

STEREO - Am/fm table radio, solid state Panasonic w/auto record changer, 2 speakers, excel cond. \$95 compl. Frank, 727-1278 after 5.

SAILING ANYONE? - 3 dimensional, that is, fly north/south shore, miles at a glance. \$3/½ hr/seat, experienced certified pilot. Arnold, 924-3905.

SOFA - Good cond, 3-cushioned, w/cover, best offer. Jim, Ext. 668, 751-0023.

SIAMESE KITTENS - Male & female. \$15. Linda, Ext. 2266, 286-1201 after 5.

GE ELEC HAIR CURLER - Very good cond, \$10; army raincoat w/zip-in lining, X-lg, like new, \$20; mono records, good cond, \$1 ea. Irene, 589-6468 after 4:45.

GAS STOVE - 36" white, good working cond, will deliver. \$35. 289-5607.

SS POOL FILTER - W/3-way valve, good for 15,000 gal pool. 653-4571 after 5:30.

MISC AUDIO EQUIPMENT - Williamson amp & pwr supply, 12" speaker, VM changer w/nearly new ceramic stereo cartridge. \$25 takes all. M. Greene, Ext. 7779.

FULL SIZED GIRL'S BIKE - Phillips English make, excel cond. \$25. Ext. 590.

TWIN HOSE SCUBA REGULATOR - AMF Voit "Polaris 50", used about 10 times, in fresh water only. Les, Ext. 7762.

SURFBOARD - W/car carriers. Asking \$100. Ext. 2556, 929-4753.

BLOND WIG - 100% human hair, hand sewn, like new, owner's family objects, \$50; Bell & Howell movie outfit, compl, very good cond, 8 mm projector, \$50. Irene, 589-6468 after 4:45.

CAMPING TRAILER BY BETHANY - '66 pop-up, sleeps 4, sets up in 2½ M.U., 12" wheels, fiberglass top. \$350. A. Esper, Ext. 2511, 929-4905.

30 OLD PHONOGRAPH RECORDS - National Geographic Magazine, foreign coins. O. Booker, Ext. 2411.

SIDEWALK BICYCLE - 16", conv for boy or girl, compl w/training wheels. \$10. R.L. Monaghan, Ext. 2852.

Real Estate

Real Estate advertised for sale or rent is available without regard for the race, color, creed or national origin of the applicant.

For Sale

WADING RIVER - 3 bedrm cedar ranch on wooded acre, air cond, 16x22 fam rm w/raised hearth fireplace, appliances, w/w, 2-car garage, 2 baths, less than 1 yr. Asking \$47,500, reas taxes. Ext. 2930, 929-6459.

Wanted

SILVER COINS - Dimes, quarters, ½ dollars, dated 1964 or before, will pay 8% over face value. 744-6315 after 6.

TO RENT - 2 or 3 bedrm house or apt, furn or unfurn, year-round. R. Williams, Ext. 2871, after 6 Ext. 397.

GERMAN WAR SOUVENIRS - Uniforms, medals, helmets, etc. Carl, 924-8296 after 5.

BABY CARRIER - For carrying baby back-pack fashion. 286-1097.

POSITION - Sitter/mother's helper, have experience, own trans, references, avail daily/weekly, 6/25-7/31. A. Schiro, 286-8234 after 4.

GARDEN TRACTOR - W/plow, disc, etc. George, Ext. 2231.

HOME - For purebred blue cream Persian cat, spayed, age about 2½ yrs, owner allergic. 475-8962 after 6.

INTERNATIONAL SCOUT - Late model, 4 w/d, must be clean. Frank, 929-6746.

CHAIN SAW WORK - Tree cutting, light hauling, clean ups, done reasonably. 728-4481.

POODLES, TERRIERS, SPANIELS - To groom in my home, reasonable & reliable. Tony, 924-8225.

PETS - Going on vacation, will care for your pet by day/wk/mo, reasonable & reliable. Tony, 924-8225.

GOOD HOMES - For part Siamese kittens, 1 grey with blue eyes, 1 grey, blue eyes & white markings. Whitey, Ext. 2179 or JU1-6367.

Carpools

DRIVER WANTED - To compl existing carpool from Patchogue. Bob, Ext. 2265.

Lost & Found

LOST - Dog, hound-type brown male, red flea collar, name Spike, generous award. Judy, 924-8659.

Classified Ad Policy

Deadline is 12 noon Friday for publication the following week.

- The Brookhaven Bulletin's classified section may be used only by active and retired Laboratory employees.
- All items for sale or rent must be the advertiser's property.
- Ads for material acquired for resale in association with a full or part-time business cannot be accepted.
- Firearms offered for sale or trade may not be brought on site.

- Ads not carried because of space restrictions will be held for publication in the next issue.
- Ads are run only once and must be resubmitted if they are to be repeated.
- Ads should be restricted to 20 words or less and typed or printed on the form provided, and must bear the employees signature.

<input type="checkbox"/> For Sale: Auto & Auto Supplies	<input type="checkbox"/> Wanted	Check <input checked="" type="checkbox"/> the heading applying to your ad. Print or type your ad in 20 words or less.
<input type="checkbox"/> For Sale: Boats & Marine Supplies	<input type="checkbox"/> Carpools	
<input type="checkbox"/> For Sale: Miscellaneous	<input type="checkbox"/> Lost & Found	

Ads concerning property for sale or rent cannot be accepted on this form. Special Real Estate Ad forms are available at the Office of the Brookhaven Bulletin, Room 112, 40 Brookhaven Avenue.

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(Name & Phone No. To Call)

Employee's Signature Life No. Ext.

Send to: Brookhaven Bulletin, 40 Brookhaven Avenue